This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

OTPE CIES

Signature

PTO/SB/21 (08-03) Approved for use through 08/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE fuction Act of 1995, no persons are required to respond ollection of information unless it displays a valid OMB control number. Application Number 10/707,515 **TRANSMITTAL** Filing Date 12/19/2003 **FORM** First Named Inventor Yuan-Hu Chang Art Unit (to be used for all correspondence after initial filing) **Examiner Name** Attorney Docket Number LITP0011USA Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance communication ~ Fee Transmittal Form Drawing(s) to Technology Center (TC) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC Petition Amendment/Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a **Provisional Application Proprietary Information** After Final Power of Attorney, Revocation Affidavits/declaration(s) Status Letter Change of Correspondence Address Other Enclosure(s) (please Terminal Disclaimer **Extension of Time Request** Identify below): Request for Refund **Express Abandonment Request** CD, Number of CD(s) Information Disclosure Statement Remarks Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Winston Hsu, Reg. No.: 41,526 Individual name Signature Date CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name Date

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

TOTAL AMOUNT OF PAYMENT

Applicant claims small entity status. See 37 CFR 1.27

PTO/SB/17 (10-03)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Eduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

CHE TO A NOMITTAL	Com		
FEE TRANSMITTAL	Application Number	10	
for FY 2004	Filing Date	12	
	First Named Inventor	Υı	
Effective 10/01/2003. Patent fees are subject to annual revision.	Examinor Namo	1	

(\$) 0.00

plete if Known 0/707,515 2/19/2003 uan-Hu Chang Art Unit LITP0011USA Attorney Docket No.

METHOD OF PAYMENT (check all that apply) FEE CALCULATION (continued)						
Check Credit card Money Other None	3. ADDITIONAL FEES					
Deposit Account:	<u>Large</u>	Entity	Small	Entity	,	
Denosit	Fee Code	Fee (\$)	Fee Code	Fee	Fee Description	Fac Daid
Account 50-0801	1051	130	2051		Surcharge - late filing fee or oath	Fee Paid
Number Deposit	1052	50	2052		Surcharge - late provisional filing fee or	
Account Name North America International Patent Office					cover sheet	
The Director is authorized to: (check all that apply)	1053	130	1053		Non-English specification	
Charge fee(s) indicated below Credit any overpayments		2,520	1812	•	For filing a request for ex parte reexamination	\vdash
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920	Requesting publication of SIR prior to Examiner action	└
Charge fee(s) indicated below, except for the filing fee	1805	1,840*	1805	1,840*	Requesting publication of SIR after	
to the above-identified deposit account.	1054	440	2254		Examiner action	<u>0.00</u>
FEE CALCULATION	1251 1252	110 420	2251 2252	55 210	Extension for reply within first month Extension for reply within second month	ř
1. BASIC FILING FEE	1252	950	2252		Extension for reply within third month	
Large Entity Small Entity Fee Fee Fee Fee Paid		1,480	2254		• •	
Code (\$) Code (\$)					Extension for reply within fourth month	\vdash
1001 770 2001 385 Utility filing fee		2,010	2255	.,	Extension for reply within fifth month	
1002 340 2002 170 Design filing fee	1401	330	2401		Notice of Appeal	
1003 530 2003 265 Plant filing fee	1402	330	2402		Filing a brief in support of an appeal	\vdash
1004 770 2004 385 Reissue filing fee	1403	290	2403		Request for oral hearing	
1005 160 2005 80 Provisional filing fee		1,510	1451	•	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 0.00	1452	110	2452		Petition to revive - unavoidable	\vdash
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1,330	2453		Petition to revive - unintentional	
Fee from Extra Claims below Fee Paid	1501	1,330 480	2501 2502		i Utility issue fee (or reissue) Design issue fee	
Total Claims -20** = X =	1502	640	2502		Plant issue fee	\vdash
Independent - 3** = X =	1460	130	1460		Petitions to the Commissioner	
Multiple Dependent	1807	50	1807		Processing fee under 37 CFR 1.17(q)	
Large Entity Small Entity	1806	180	1806		Submission of Information Disclosure Stmt	
Fee Fee Fee Fee Description Code (\$) Code (\$)					Recording each patent assignment per	
1202 18 2202 9 Claims in excess of 20	8021	40	802		property (times number of properties)	
1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	For each additional invention to be	
1204 86 2204 43 ** Reissue independent claims					examined (37 CFR 1.129(b))	\vdash
over original patent	1801	770	2801		Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	 Request for expedited examination of a design application 	
Other fee			ecify)			
SUBTOTAL (2) (\$) 0.00 **or number previously paid, if greater; For Reissues, see above				Filing F	subtotal (3) (\$) 0.00	

(Complete (if applicable)) SUBMITTED BY Registration No. Winston Hsu Name (Print/Type) 41,526 Telephone 886289237350 Date Signature

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PTO/SB/02B (11-00)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION — Supplemental Priority Data Sheet

Additional foreign applications:					
Prior Foreign Application Number(s)		Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES NO	
092121922	Taiwan R.O.C	08/08/2003			
	·				
			· 🗆		

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



인한 인한 인한 인한



中華民國經濟部智慧財產局

INTELLECTUAL PROPERTY OFFICE MINISTRY OF ECONOMIC AFFAIRS REPUBLIC OF CHINA

茲證明所附文件,係本局存檔中原申請案的副本,正確無訛,

其申請資料如下

This is to certify that annexed is a true copy from the records of this office of the application as originally filed which is identified hereunder:

申 請 日 : 西元 <u>2003</u>年 <u>08</u>月 <u>08</u>日 Application Date

申 請 案 號 : 092121922 Application No.

申 請 人: 建興電子科技股份有限公司 Applicant(s)

局 / 長 Director General



發文日期 、西元 <u>2003</u> 年 <u>10</u> 月<u>9</u> / 日 Issue Date

發文字號: Serial No. 09221017700



리터 리터 리터 리터 리터 리터 리터 리닉 리터 리터 기타

申請日期:	IPC分類	, , , , , , , , , , , , , , , , , , ,	
申請案號:			

(以上各欄	由本局填	發明專利說明書
	中文	外接式光碟機之鎖定機構
發明名稱	英 文	LOCKING MEMBER FOR AN EXTERNAL OPTICAL DISK DRIVE
	姓 名(中文)	1. 張元鴻
=	姓 名 (英文)	1. Chang Yuan-Hung
發明人 (共1人)	國 籍 (中英文)	1. 中華民國 TW
	住居所 (中 文)	1. 新竹市科學園區力行路12號5樓
	住居所 (英 文)	1.5F, No. 12, Li-Hsin Road, Science-Based Industrial Park, Hsinchu 300, Taiwan R.O.C.
	姓 名(中文)	1. 建興電子科技股份有限公司
•	名稱或 姓 名 (英文)	1.LiteON IT Corporation
き	國 籍 (中英文)	1. 中華民國 TW
申請人(共1人)	住居所 (營業所) (中 文)	1. 新竹市科學園區力行路12號5樓 (本地址與前向貴局申請者不同)
	住居所 (營業所) (英 文)	1.5F, No. 12, Li-Hsin Road, Science-Based Industrial Park, Hsinchu 300, Taiwan R.O.C.
	代表人(中文)	1. 宋恭源
	代表人 (英文)	Raymond Soong
	. 1.21.212.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	PAUR 1994, PAP LICENT, PR.O. PLI. C. C. J. R. 1981, PR. 1911



四、中文發明摘要 (發明名稱:外接式光碟機之鎖定機構)

伍、本案代表圖為

(一)、本案代表圖為第__五__圖

六、英文發明摘要 (發明名稱:LOCKING MEMBER FOR AN EXTERNAL OPTICAL DISK DRIVE)

The locking member is positioned on the upper housing to release or lock the cover. The cover has a projection extending downwardly from its front end and a rotary shaft is integrally formed with the cover. A mounting member is defined on the bottom of the upper housing and is adapted to receive the rotary shaft of the cover. Both ends of the elastic member are respectively adapted to





四、中文發明摘要 (發明名稱:外接式光碟機之鎖定機構)

- (二)、本案代表圖之元件代表符號簡單說明:
- 22 圓 孔
- 30 掀 蓋
- 33 旋 轉 部
- 34 連接部
- 36扇形齒輪
- 40 安 裝 構 件
- 41 上 蓋
- 42 彈性構件
- 43 連 接 端
- 44 連 接 端
- 50 下 蓋
- 60鎖定構件

六、英文發明摘要 (發明名稱:LOCKING MEMBER FOR AN EXTERNAL OPTICAL DISK DRIVE)

be received in holes of the rotary shaft and the mounting member. Besides, the elastic member is restrained by the rotary shaft and the mounting member. When the cover is closed, the line of force of elastic member is directed to a connecting rod, the cover is not subjected to torsional moment of the elastic member. When the locking member disengages from the opening of the



四、中文發明摘要 (發明名稱:外接式光碟機之鎖定機構)

六、英文發明摘要 (發明名稱:LOCKING MEMBER FOR AN EXTERNAL OPTICAL DISK DRIVE)

cover, the line of elastic force is not directed to the connecting shaft, the cover will be opened due to the resilience of the elastic member. Thus, there is no force or torsional moment applied to the cover.



一、本案已向			
國家(地區)申請專利	申請日期	案號	主張專利法第二十四條第一項優先權
		無	
		•	
- 「十兆亩利之笋-十二	一小一	. No. made	
二、□主張專利法第二十五	1條之一第一項 復	先權:	
申請案號:		無	
日期:		70	
三、主張本案係符合專利法	5第二十條第一項[□第一款但書或[]第二款但書規定之期間
日期:			
四、□有關微生物已寄存於	仒國外:		·
寄存國家:		~	
寄存機構: 寄存日期:		無	
奇仔日期: 寄存號碼:			
□有關微生物已寄存於	☆國內(本局所指定	之寄存機構):	
寄存機構:			
寄存日期:		無	
寄存號碼:			
□熟習該項技術者易於	獲得,不須寄存。		
			•
医川 似如 [8] 全国的共和党 以代表的企业的企画(11)			,

五、發明說明(1)

【發明所屬之技術領域】

本發明是有關於外接式光碟機之鎖定機構,而且特別是有關於一種鎖定機構,可用於釋放及鎖定外接式光碟機之外蓋。

【先前技術】

光碟機在消費市場逐漸普及而且多年來被視為個人電腦的標準配備。一般說來,光碟機係用來讀取光碟片上預先儲存的資料。習知上,光碟機以唯讀光讀機(CD-ROM

drives)及影音光碟機(DVD-ROM drives)較著名。一些光碟機具有附加功能可將資料寫入一光碟片上,即可錄式光碟機(CD-RW drives)。光碟機係使用於播放音樂及影像,而且可安裝在燒錄裝置及其他電子裝置。

另一種類型的光碟機係具有獨立外殼(通常稱為外接式光碟機)而且經由一訊號線與主機電腦連接以便傳送資料至該主機電腦。此外,該外接式光碟機可經由耳機線傳送音樂資料。

第1圖係顯示習知外接式光碟機。參閱第1圖,該習知外接式光碟機係包括一掀蓋1、一上蓋2及一下蓋3。

第2圖係顯示第1圖的習知外接式光碟機之掀蓋。參閱第2圖,該掀蓋1係包括一突出部11,而且該突出部11係由該掀蓋1的前端向下延伸。一開口12係設置於該突出部11上。旋轉部13係與該掀蓋的後端一體成形,而且一扇型齒輪14係與該掀蓋1的旋轉部13一體成形。





五、發明說明 (2)

第3圖係顯示第1圖的習知外接式光碟機,而且該撒蓋係在開啟狀態。參閱第3圖,該上蓋2係安裝在下蓋3上。該掀蓋 1的旋轉部13係樞接於該上蓋2,以致於該掀蓋1相對於上蓋2及下蓋3而轉動。為有效使用該外接式光碟機佔用的空間,該旋轉部13並不設置於該掀蓋1的後端之中間部分。

第4圖係習知外接式光碟機的掀蓋1及上蓋2的組件之立體圖,而且該立體圖係由該上蓋2的底部觀察而得。如顯示於第4圖者,一鎖定構件4係由虛線指出而且設置於該上蓋2的底部表面。當該掀蓋1是在閉合狀態時,該鎖定構件4係用來與該突出部11的開口12相囓合,以達到鎖定該掀蓋1的目的。再度參閱第4圖,一安裝構件21係設置於該上蓋2的底部,而且用來接受該掀蓋1的旋轉部13及一彈性構件15。該彈性構件15的兩端係分別由安裝構件21及掀蓋2的旋轉部13所限制。該彈性構件15係由金屬(塑膠)製成,而且可為一扭力彈簧。再者,該扇形齒輪14係用來囓合該上蓋2的齒輪(未顯示),而且因為該彈性構件15的扭轉力矩,該掀蓋1可環繞該安裝構件21而轉動。

然而,如上所述,該彈性構件15的扭轉力矩並非施加在掀蓋1的後端之中間部分,因此引起該掀蓋1的變形。更糟的是,當運送過程期間,環境溫度很高,掀蓋1的變形可能更加惡化,因此使得該光碟機變得無法使用。

因此,需要一種用於外接式光碟機的鎖定機構。





五、發明說明 (3)

【發明內容】

發明目的

本發明的目的係提供一種用於外接式光碟機的鎖定機構並且可有效地消除掀蓋的變形。

本發明的目的係提供一種具有鎖定機構的外接式光碟機,而且該鎖定機構穩定地釋放及鎖定掀蓋。

【發明特徵】

本發明提出一種之裝置,其簡述如下:

為了使 貴審查委員能更進一步瞭解本發明特徵及技術內容,請參閱以下有關本發明之詳細說明與附圖,然而所附





五、發明說明 (4)

圖式僅提供參考與說明用,並非用來對本發明加以限制。

【發明實施方式】

以下描述的本發明之實施例係與外接式光碟機相關。然而,本發明可適用於所有光碟機產品,包括唯讀式光碟機 (CD-ROM)、COMBO光碟機、DVD-R/RW光碟機、DVD-RAM光碟機、DVD+RW光碟機、外接式光碟機及所有光學媒體紀錄機及播放機等。然而,適用範圍不限於此。

第5圖係顯示本發明外接式光碟機的分解立體圖。為簡單起見,播放單元係由外接式光碟機移除,而且省略有關該播放單元的敘述。參閱第5圖,本發明外接式光碟機係包括一掀蓋30、一上蓋40、一下蓋50及一鎖定構件60。本發明的上蓋40、下蓋50及鎖定構件60係與習知外接式光碟機的上蓋2、下蓋3及鎖定構件4相同的。如上所述,該上蓋40係設置於該下蓋50。參閱第5圖及第7A圖,該掀蓋30係包括一由其前端向下延伸的突出部31,及一開口32係設置於該突出部31。一旋轉部33係與該掀蓋30的後端一體成形,而且一扇形齒輪36係與該掀蓋30的旋轉部33一體成形。

再度參閱第5圖,一安裝構件41係設置於該上蓋40的底部而且用來接受一連接部34,該連接部34係與旋轉部33一體成形。因此,該掀蓋30的旋轉部33係樞接於該上蓋40,以致於該掀蓋30係相對於上蓋40及下蓋50轉動。再者,本發





五、發明說明 (5)

明外接式光碟機係包括一具有兩個連接端43及44的彈性構件42。一圓孔22係設置於該掀蓋30的旋轉部33,而且接近該連接部34。該圓孔22係用來接受該彈性構件42的連接端43,而且該安裝構件41係用來固定該彈性構件42的連接端44。因此,彈性構件42的兩個連接端43及44係分別由該安裝構件41及掀蓋30的旋轉部33所限制,而且產生該彈性構件42的扭轉力矩。該彈性構件42係由金屬(塑膠)製成而且可為一扭力彈簧。

第6A圖係顯示本發明的鎖定機構間不同元件的相互關係,而且由該上蓋40的底部觀察而得。參閱第6A圖,該扇形齒輪36係與該掀蓋30的旋轉部33而且用來囓合一正齒輪37,該正齒輪係樞接於該安裝構件41。當該掀蓋30係在閉合狀態時,該彈性構件42的連接端43係由定於該安裝構件41。顯然地,該彈性構件42的連接端44係固定於該安裝構件41。顯然地,該彈性構件42的連接端43係朝向該旋轉部33的連接部34。





五、發明說明 (6)

向該旋轉部33的連接部34。也就是說,該節點B係表示該連接部 34,而且該連桿3的力作用線係朝向沿著該連桿4。因此,產生、死點、,而且該彈性構件42的扭轉力矩並不施加在該掀蓋30的旋轉部33,而且該掀蓋30的開口32僅藉由鎖定構件60加以固定。該掀蓋30將不因為該彈性構件42的扭轉力矩而破壞。

第7A 圖係顯示本發明的鎖定機構間不同元件的相互關係,而且由該上蓋40的底部觀察而得。參閱第7A圖,如上所述,該扇形齒輪36條與該掀蓋30的旋轉部33一體成形,而且用來囓合一正齒輪37,該正齒輪係樞接於該安裝構件41。當該掀蓋30曲該鎖定構件60所釋放而且該掀蓋30條在開啟狀態時,該彈性構件42的連接端43條不再朝向該旋轉部33的連接部34。隨後,因為該彈性構件42的彈性,掀蓋30可相關於該安裝構件41而轉動。





五、發明說明 (7)

的連接部34。因此,'死點'將不發生,而且該彈性構件42的扭轉力矩係施加於該掀蓋30的旋轉部。因為該彈性構件42的彈性,掀蓋30可相關於該安裝構件41而轉動。

綜上所述,雖然本發明已以較佳實施例揭露如上,然其並非用以限定本發明,任何熟習此技藝者,在不脫離本發明之精神和範圍內,當可作各種之更動與潤飾,因此本發明之保護範圍當視後附之申請專利範圍所界定者為準。



圖式簡單說明

第1圖係習知外接式光碟機的立體圖;

第2圖係使用於第1圖的習知外接式光碟機的掀蓋之立體圖;

第3圖係第1圖的習知外接式光碟機之立體圖,其該掀蓋在開啟狀態;

第4圖係第1圖的習知外接式光碟機的鎖定構件之立體圖,而且係由一上蓋的底部觀察;

第5圖係本發明外接式光碟機的分解圖;

第6A 圖係第5 圖的本發明外接式光碟機的鎖定構件之立體圖,而且係由一上蓋的底部觀察;

第6B圖係相對於第6A圖的機構之4連桿圖示,其一掀蓋係在閉合狀態;

第7A圖係第5圖的本發明外接式光碟機的鎖定構件之立體圖,而且係由一上蓋的底部觀察;及

第7B圖係相對於第7A圖的機構之4連桿圖示,其一掀蓋係在開啟狀態。

【圖號說明】

- 1 掀 蓋
- 2 上 蓋
- 3 下 蓋
- 4鎖定構件
- 11 突 出 部
- 12 開口



圖式簡單說明

- 13 旋 轉 部
- 14 扇型齒輪
- 15 彈性構件
- 21 安 裝 構 件
- 22 圓 孔
- 30 掀 蓋
- 33 旋 轉 部
- 34 連接部
- 36扇形齒輪
- 37正齒輪
- 40 安 裝 構 件
- 41 上 蓋
- 42 彈性構件
- 43 連接端
- 44 連 接 端
- 50 下 蓋
- 60鎖定構件



六、申請專利範圍

- 1. 一種外接式光碟機之鎖定機構,其具有一批蓋及一上蓋,包括:
- 一彈性元件,具有兩個連接端;
- 一旋轉部,係與該掀蓋一體成形而且具有一圓孔用於接受該連接端之一端;
- 一鎖定構件,係設置於該上蓋;及
- 一安装構件,係安裝在該上蓋而且用來固定另一連接端。
- 2. 如申請專利範圍第1項所述之鎖定機構,其中該彈性構件係由金屬製成而且可為一扭力彈簧。
- 3. 如申請專利範圍第1項所述之鎖定機構,其中該彈性構件係由塑膠製成而且可為一扭力彈簧。
- 4. 如申請專利範圍第1項所述之鎖定機構,進一步包括一扇形齒輪,而且該齒輪係與該掀蓋的旋轉部一體成形。
- 5. 如申請專利範圍第4項所述之鎖定構件,進一步包括一正齒輪,而且該齒輪係安裝在該安裝構件上並且用來囓合該扇形齒輪。
- 6. 一種外接式光碟機之鎖定機構,其具有一批蓋及一上蓋,包括:
- 一彈性元件,具有兩個連接端;



六、申請專利範圍

- 一旋轉部,係與該掀蓋一體成形而且具有一圓孔用於接受該連接端之一端;
- 一扇形齒輪,係與該掀蓋的旋轉部一體成形;
- 一安裝構件,係安裝在該上蓋而且用來固定另一連接端;
- 一正齒輪,係安裝在該安裝構件上並且用來囓合該扇形齒輪;及
- 一鎖定構件,係設置於該上蓋。
- 7. 如申請專利範圍第6項所述之鎖定機構,其中該彈性構件係由金屬製成而且可為一扭力彈簧。
- 8. 如申請專利範圍第6項所述之鎖定機構,其中該彈性構件係由塑膠製成而且可為一扭力彈等。
- 9. 一種外接式光碟機,包括:
- 一下蓋;
- 一上蓋,係設置於該下蓋;
- 一鎖定構件,係設置於該上蓋;
- 一彈性構件,具有兩個連接端;
- 一掀蓋,具有一旋轉部及一扇形齒輪而且具有一圓孔用來接受該彈性構件的連接端之一;
- 一安裝構件,係設置於該上蓋而且用來固定另一連接端;及
- 一正齒輪,係設置於該安裝構件上;

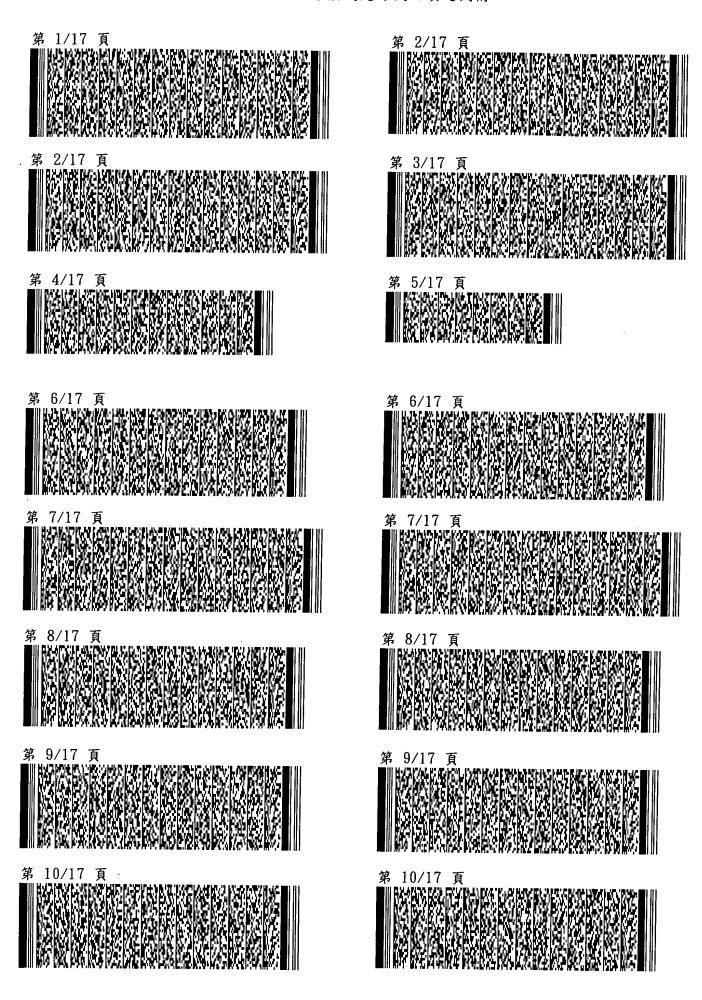


六、申請專利範圍

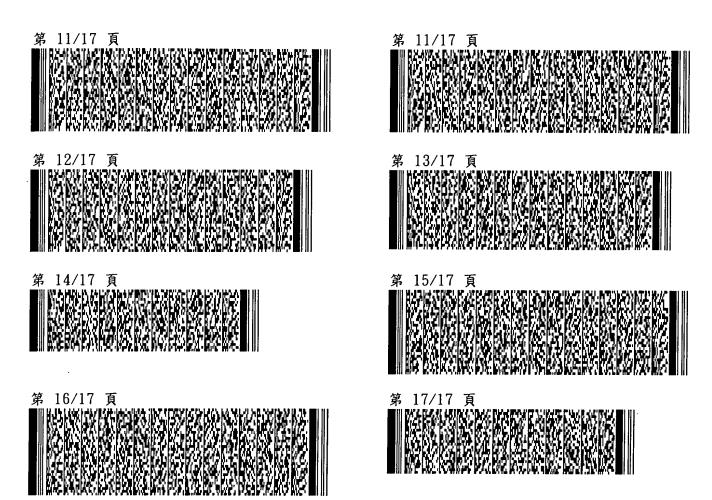
其中該掀蓋係在開啟或者閉合狀態時,該正齒輪將囓合該掀蓋之旋轉部。

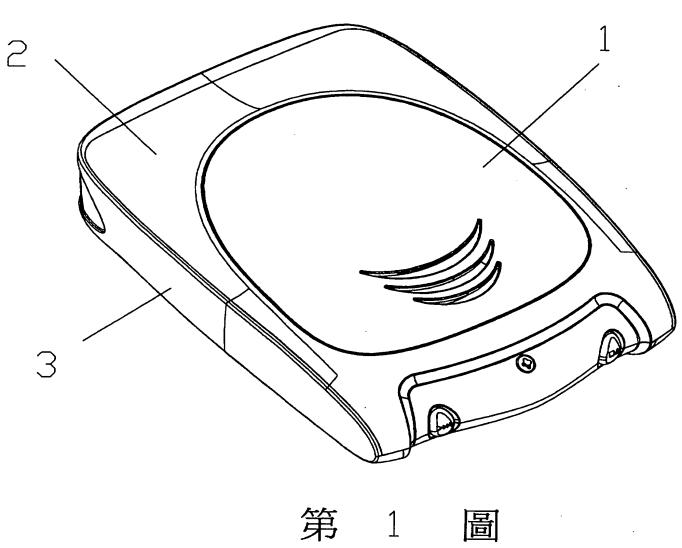
- 10. 如申請專利範圍第9項所述之鎖定機構,其中該彈性構件係由金屬製成而且可為一扭力彈簧。
- 11. 如申請專利範圍第9項所述之鎖定機構,其中該彈性構件係由塑膠製成而且可為一扭力彈簧。



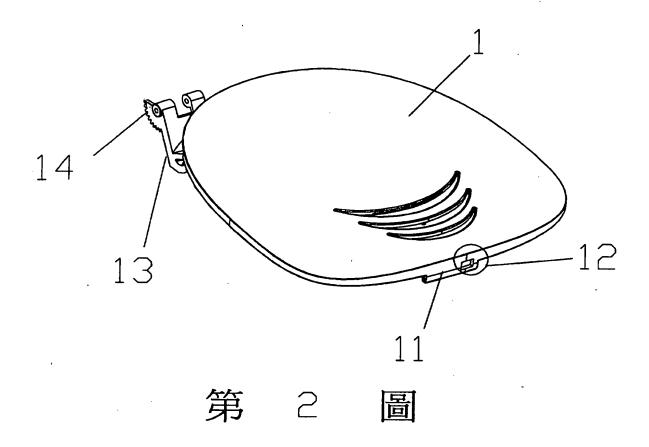


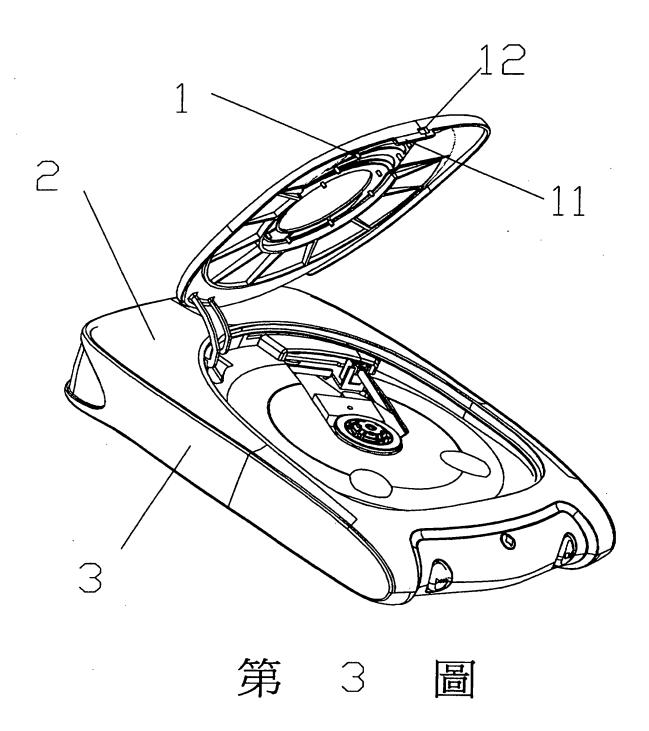
(4.5版)申請案件名稱:外接式光碟機之鎖定機構

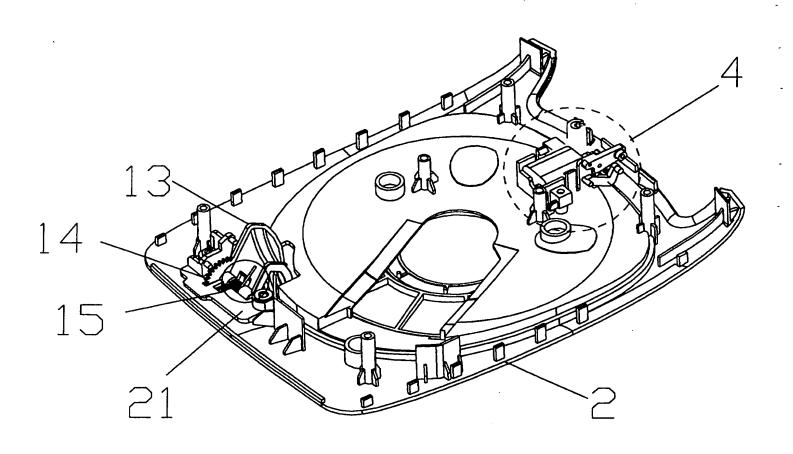




圖







第 4 圖

